

OIPE

1636

ENTERED

TECH CENTER 2002
JULY 2003RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/975,132ADATE: 07/10/2002
TIME: 10:51:53Input Set : A:\GC636-2-SEQLIST.TXT
Output Set: N:\CRF3\07102002\I975132A.raw

4 <110> APPLICANT: Kolkman, Marc
 6 <120> TITLE OF INVENTION: Enhanced Secretion of a Polypeptide by a
 7 Microorganism
 9 <130> FILE REFERENCE: GC636-2
 11 <140> CURRENT APPLICATION NUMBER: US 09/975,132A
 12 <141> CURRENT FILING DATE: 2001-10-09
 14 <150> PRIOR APPLICATION NUMBER: US 60/239,531
 15 <151> PRIOR FILING DATE: 2000-10-10
 17 <160> NUMBER OF SEQ ID NOS: 30
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 15
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: synthetic peptide tag
 29 <400> SEQUENCE: 1
 30 Ala Gly Lys Thr Asn Ser Phe Asn Gln Asn Val Ala Leu Ala Ala
 31 1 5 10 15
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 15
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: synthetic peptide tag
 41 <400> SEQUENCE: 2
 42 Ala Gly Lys Thr Asn Ser Phe Asn Gln Asn Val Ala Leu Asp Asp
 43 1 5 10 15
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 11
 47 <212> TYPE: PRT
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: synthetic peptide tag
 53 <400> SEQUENCE: 3
 54 Ala Ala Asn Asp Glu Asn Tyr Ala Leu Ala Ala
 55 1 5 10
 57 <210> SEQ ID NO: 4
 58 <211> LENGTH: 15
 59 <212> TYPE: PRT
 60 <213> ORGANISM: Artificial Sequence
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: synthetic peptide tag

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/975,132A

DATE: 07/10/2002
TIME: 10:51:53

Input Set : A:\GC636-2-SEQLIST.TXT
Output Set: N:\CRF3\07102002\I975132A.raw

65 <400> SEQUENCE: 4
66 Ala Gly Lys Thr Asn Ser Phe Asn Gln Asn Val Ala Leu Lys Lys
67 1 5 10 15
69 <210> SEQ ID NO: 5
70 <211> LENGTH: 14
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: synthetic peptide tag
77 <400> SEQUENCE: 5
78 Gly Lys Thr Asn Ser Phe Asn Gln Asn Val Ala Leu Ala Ala
79 1 5 10
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 14
83 <212> TYPE: PRT
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: synthetic peptide tag
89 <400> SEQUENCE: 6
90 Gly Lys Thr Asn Ser Phe Asn Gln Asn Val Ala Leu Asp Asp
91 1 5 10
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 32
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: primer
101 <400> SEQUENCE: 7
102 gtcgacacctg agaccctaag cttggcgtaa tc 32
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 60
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: primer
112 <400> SEQUENCE: 8
113 gtcgacacctg agcggcagaa tcttttttg attctgccgc aaagtctgtct gttgagccctg 60
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 71
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: primer
123 <400> SEQUENCE: 9
124 ctgcagctcg aggatatcgt cgaccggcag aatcaaaaaa agattctgcc gaccctaagc 60
125 ttggcgtaat c 71
127 <210> SEQ ID NO: 10
128 <211> LENGTH: 81
129 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/975,132A

DATE: 07/10/2002

TIME: 10:51:53

Input Set : A:\GC636-2-SEQLIST.TXT

Output Set: N:\CRF3\07102002\I975132A.raw

130 <213> ORGANISM: Artificial Sequence
 132 <220> FEATURE:
 133 <223> OTHER INFORMATION: primer
 135 <400> SEQUENCE: 10
 136 cttctactcg agtcaggcag ctaatgctac gtttggta aaactgttag tttgcctgc 60
 137 gctcaaagtc gtctgtttag c 81
 139 <210> SEQ ID NO: 11
 140 <211> LENGTH: 81
 141 <212> TYPE: DNA
 142 <213> ORGANISM: Artificial Sequence
 144 <220> FEATURE:
 145 <223> OTHER INFORMATION: primer
 147 <400> SEQUENCE: 11
 148 cttctactcg agtcagtctg ctaatgctac gtttggta aaactgttag tttgcctgc 60
 149 gctcaaagtc gtctgtttag c 81
 151 <210> SEQ ID NO: 12
 152 <211> LENGTH: 69
 153 <212> TYPE: DNA
 154 <213> ORGANISM: Artificial Sequence
 156 <220> FEATURE:
 157 <223> OTHER INFORMATION: primer
 159 <400> SEQUENCE: 12
 160 cttctactcg agtcaagctg ctaaagcgta gtttcgtcg tttgctgcgc tcaaagtcgt 60
 161 ctgttgagc 69
 163 <210> SEQ ID NO: 13
 164 <211> LENGTH: 21
 165 <212> TYPE: DNA
 166 <213> ORGANISM: Artificial Sequence
 168 <220> FEATURE:
 169 <223> OTHER INFORMATION: primer
 171 <400> SEQUENCE: 13
 172 cagctccgtc tgagaaaaaa g 21
 174 <210> SEQ ID NO: 14
 175 <211> LENGTH: 21
 176 <212> TYPE: DNA
 177 <213> ORGANISM: Artificial Sequence
 179 <220> FEATURE:
 180 <223> OTHER INFORMATION: primer
 182 <400> SEQUENCE: 14
 183 cgaagtggc gatttctcc g 21
 185 <210> SEQ ID NO: 15
 186 <211> LENGTH: 40
 187 <212> TYPE: DNA
 188 <213> ORGANISM: Artificial Sequence
 190 <220> FEATURE:
 191 <223> OTHER INFORMATION: primer
 193 <400> SEQUENCE: 15
 194 ttctaaaagc ttagtgtt attcgaaaat caggcctgtg 40
 196 <210> SEQ ID NO: 16

RAW SEQUENCE LISTING DATE: 07/10/2002
 PATENT APPLICATION: US/09/975,132A TIME: 10:51:54

Input Set : A:\GC636-2-SEQLIST.TXT
 Output Set: N:\CRF3\07102002\I975132A.raw

```

197 <211> LENGTH: 45
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: primer
204 <400> SEQUENCE: 16
205 gagctcgctg cgcttattag tcgtctaatg ctacgtttg gttaa 45
207 <210> SEQ ID NO: 17
208 <211> LENGTH: 45
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: primer
215 <400> SEQUENCE: 17
216 ttaaccaaaa cgttagcatta gacgactaat aagcgcagcg agctc 45
218 <210> SEQ ID NO: 18
219 <211> LENGTH: 40
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: primer
226 <400> SEQUENCE: 18
227 cctccgtgca tgcttcctct tatttattga cagaatctg 40
229 <210> SEQ ID NO: 19
230 <211> LENGTH: 40
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: primer
237 <400> SEQUENCE: 19
238 agagtttaa atctctcgaa agaaaacacat ggatgacatt 40
240 <210> SEQ ID NO: 20
241 <211> LENGTH: 40
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: primer
248 <400> SEQUENCE: 20
249 tgatatgtaa aatttcagat catcataaat atctgctatt 40
251 <210> SEQ ID NO: 21
252 <211> LENGTH: 31
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: primer
259 <400> SEQUENCE: 21
260 cttaaccgaat tcgtgaagga ggaggcattat g 31
262 <210> SEQ ID NO: 22
263 <211> LENGTH: 30

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/975,132A

DATE: 07/10/2002
TIME: 10:51:54

Input Set : A:\GC636-2-SEQLIST.TXT
Output Set: N:\CRF3\07102002\I975132A.raw

264 <212> TYPE: DNA
 265 <213> ORGANISM: Artificial Sequence
 267 <220> FEATURE:
 268 <223> OTHER INFORMATION: primer
 270 <400> SEQUENCE: 22
 271 gcctttggat ccggctgcaa gcaggaacgc 30
 273 <210> SEQ ID NO: 23
 274 <211> LENGTH: 24
 275 <212> TYPE: DNA
 276 <213> ORGANISM: Artificial Sequence
 278 <220> FEATURE:
 279 <223> OTHER INFORMATION: primer
 281 <400> SEQUENCE: 23
 282 acgttacgga ttgcacaggg atgg 24
 284 <210> SEQ ID NO: 24
 285 <211> LENGTH: 22
 286 <212> TYPE: DNA
 287 <213> ORGANISM: Artificial Sequence
 289 <220> FEATURE:
 290 <223> OTHER INFORMATION: primer
 292 <400> SEQUENCE: 24
 293 gagtcgaacc cacgtccaga aa 22
 295 <210> SEQ ID NO: 25
 296 <211> LENGTH: 152
 297 <212> TYPE: PRT
 298 <213> ORGANISM: Bacillus subtilis
 300 <400> SEQUENCE: 25
 301 Met Ser Arg Leu Pro Val Leu Leu Leu Gln Leu Leu Val Arg Pro
 302 1 5 10 15
 303 Gly Leu Gln Ala Pro Met Thr Gln Thr Thr Pro Leu Lys Thr Ser Trp
 304 20 25 30
 305 Val Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln
 306 35 40 45
 307 Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp Gln
 308 50 55 60
 309 Asp Ile Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe
 310 65 70 75 80
 311 Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile
 312 85 90 95
 313 Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr
 314 100 105 110
 315 Arg His Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg
 316 115 120 125
 317 Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Gln
 318 130 135 140
 319 Thr Thr Leu Ser Leu Ala Ile Phe
 320 145 150
 322 <210> SEQ ID NO: 26
 323 <211> LENGTH: 158

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/975,132A

DATE: 07/10/2002

TIME: 10:51:55

Input Set : A:\GC636-2-SEQLIST.TXT

Output Set: N:\CRF3\07102002\I975132A.raw